

FIG.1

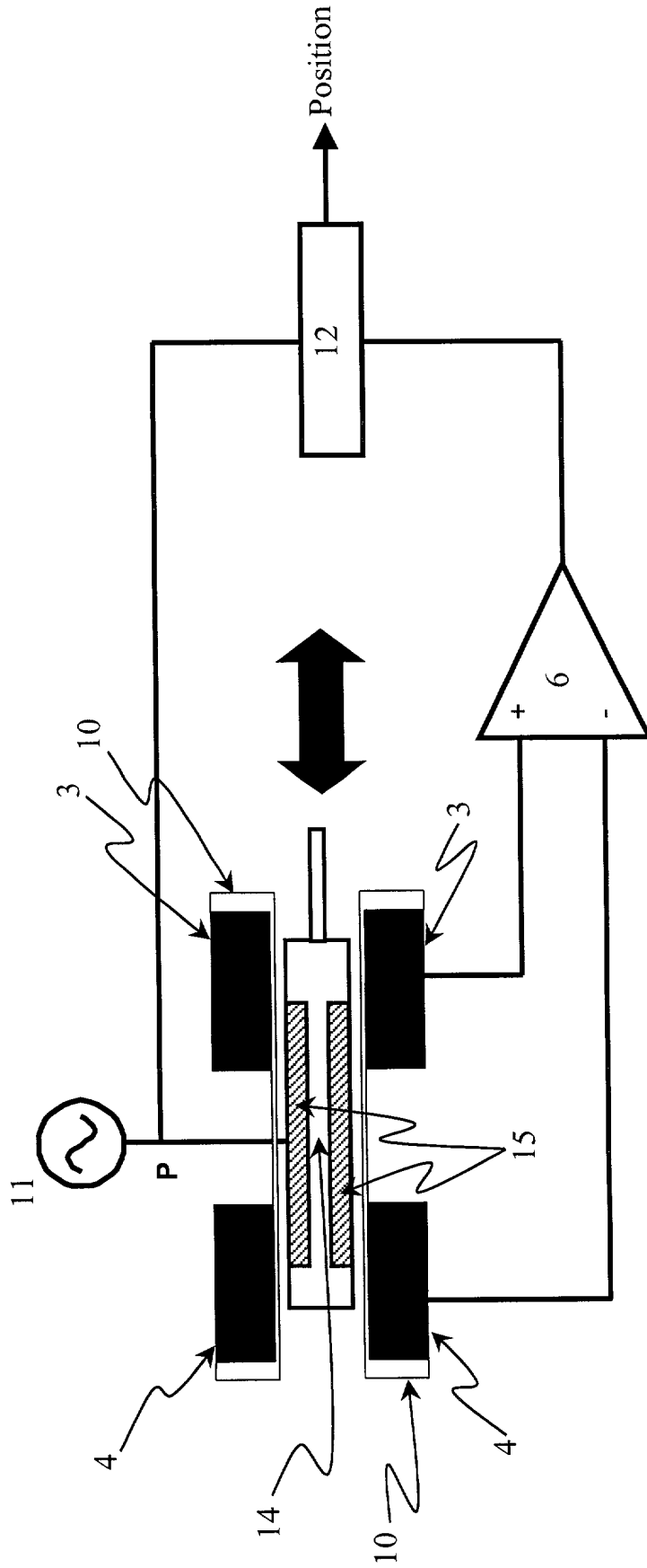


FIG.2

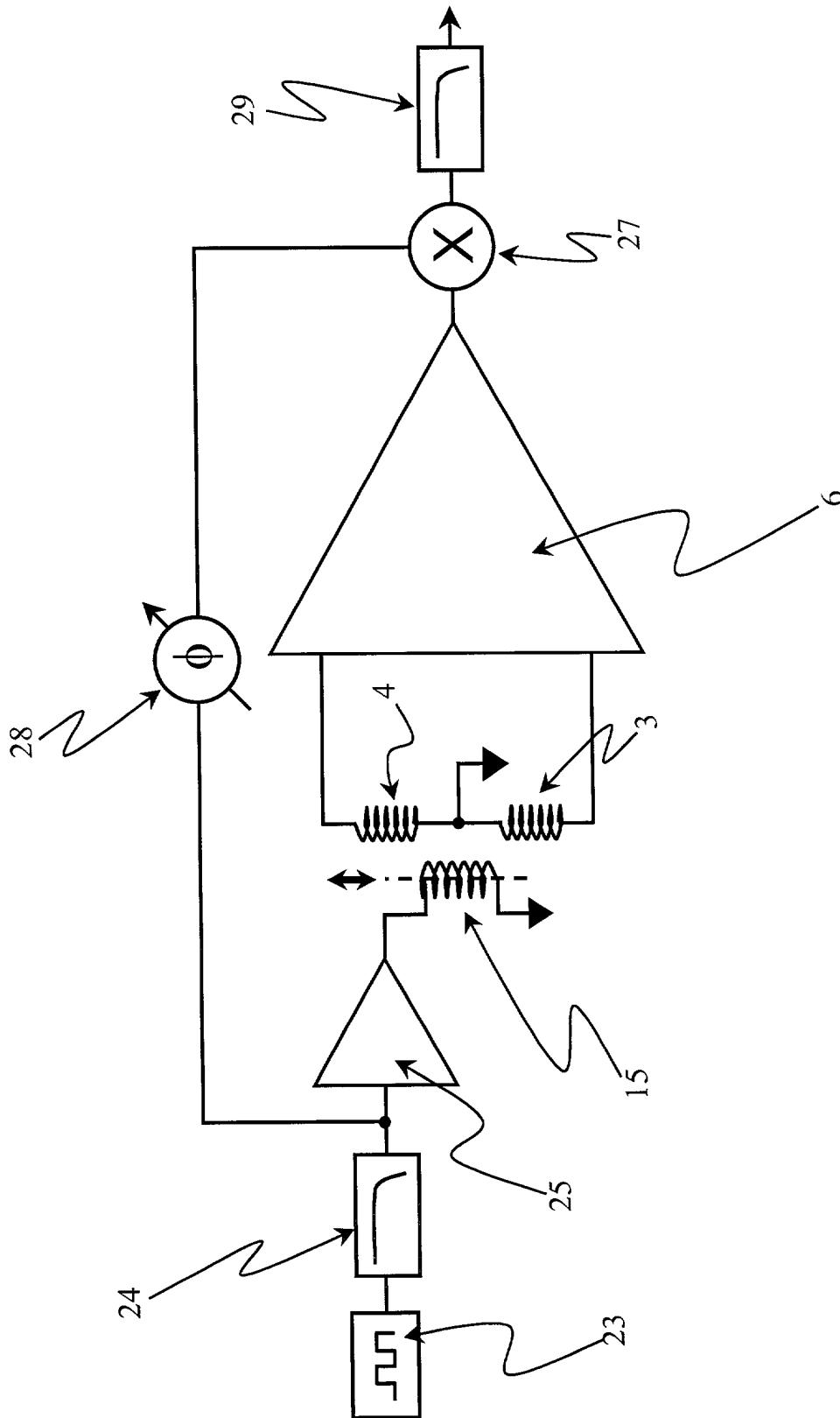


FIG.3

FIG. 3 of 21

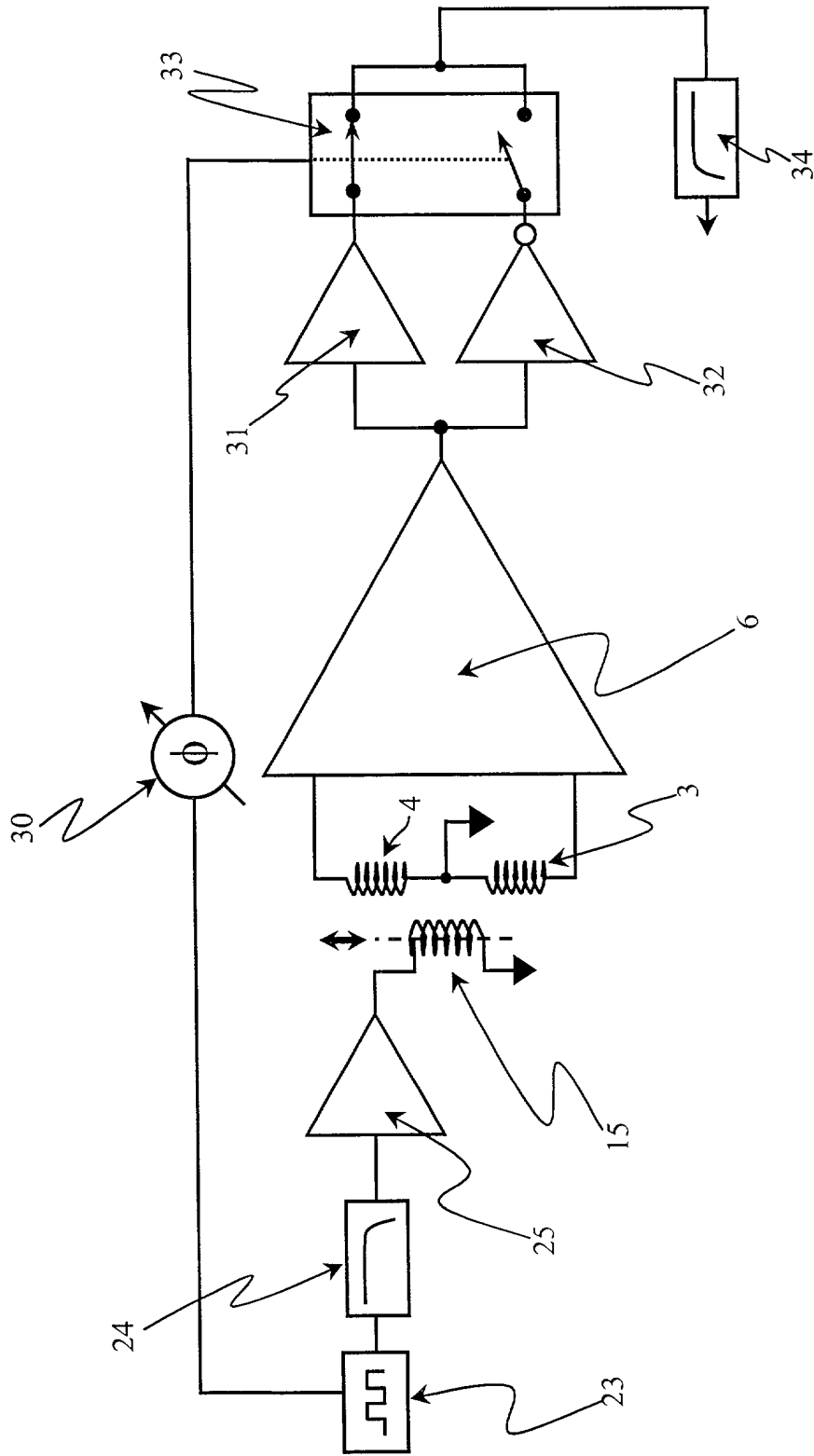


FIG. 4

FIG. 5

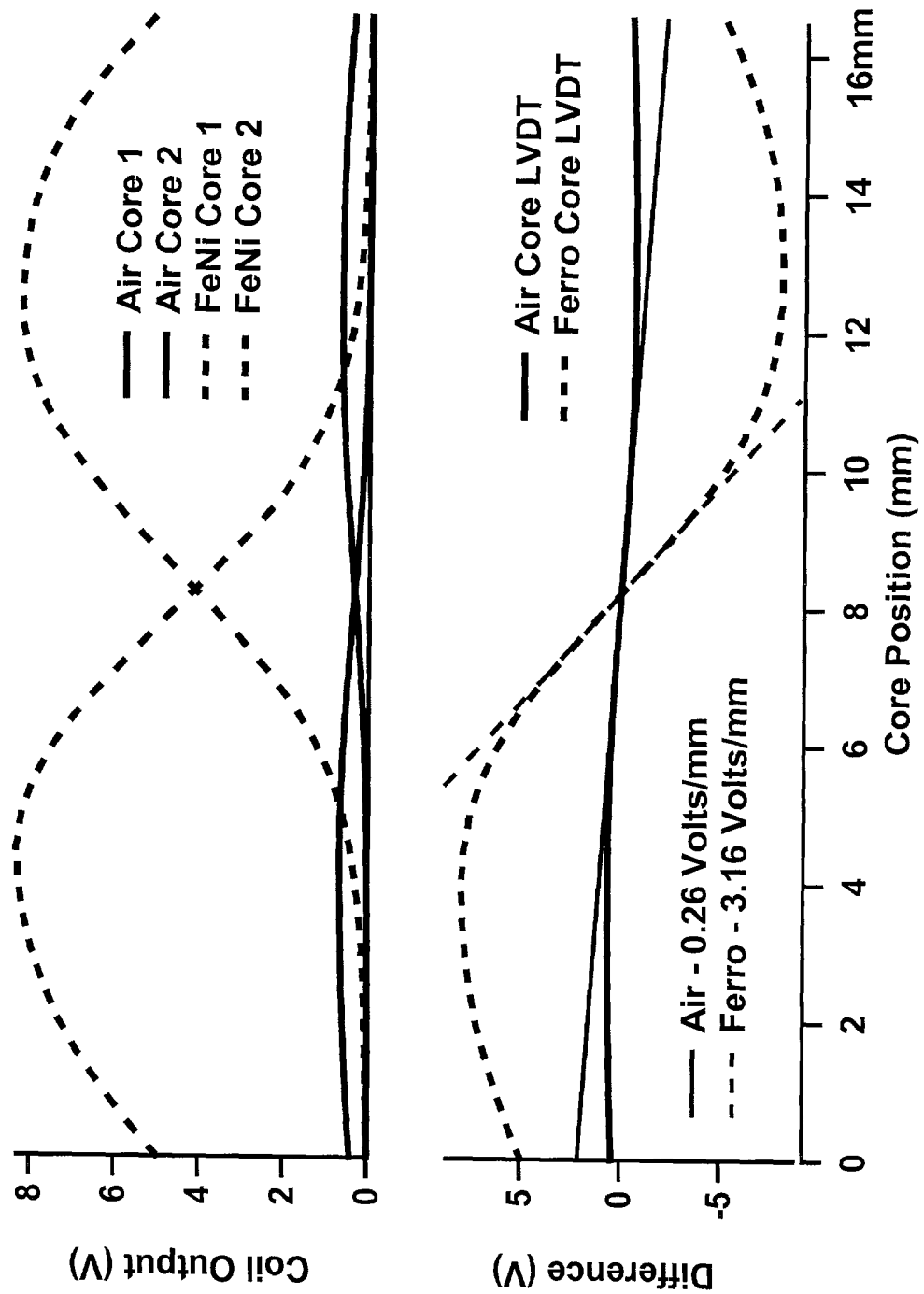


FIG. 5

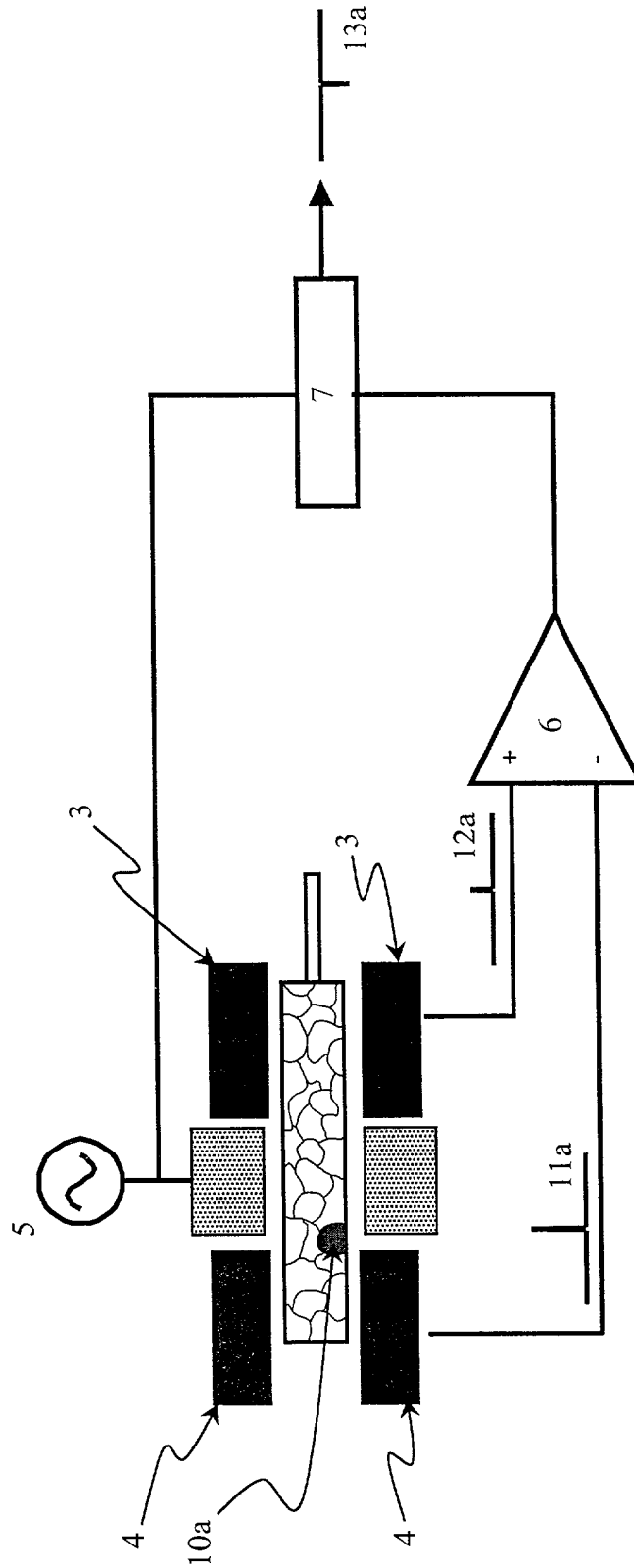


FIG. 6

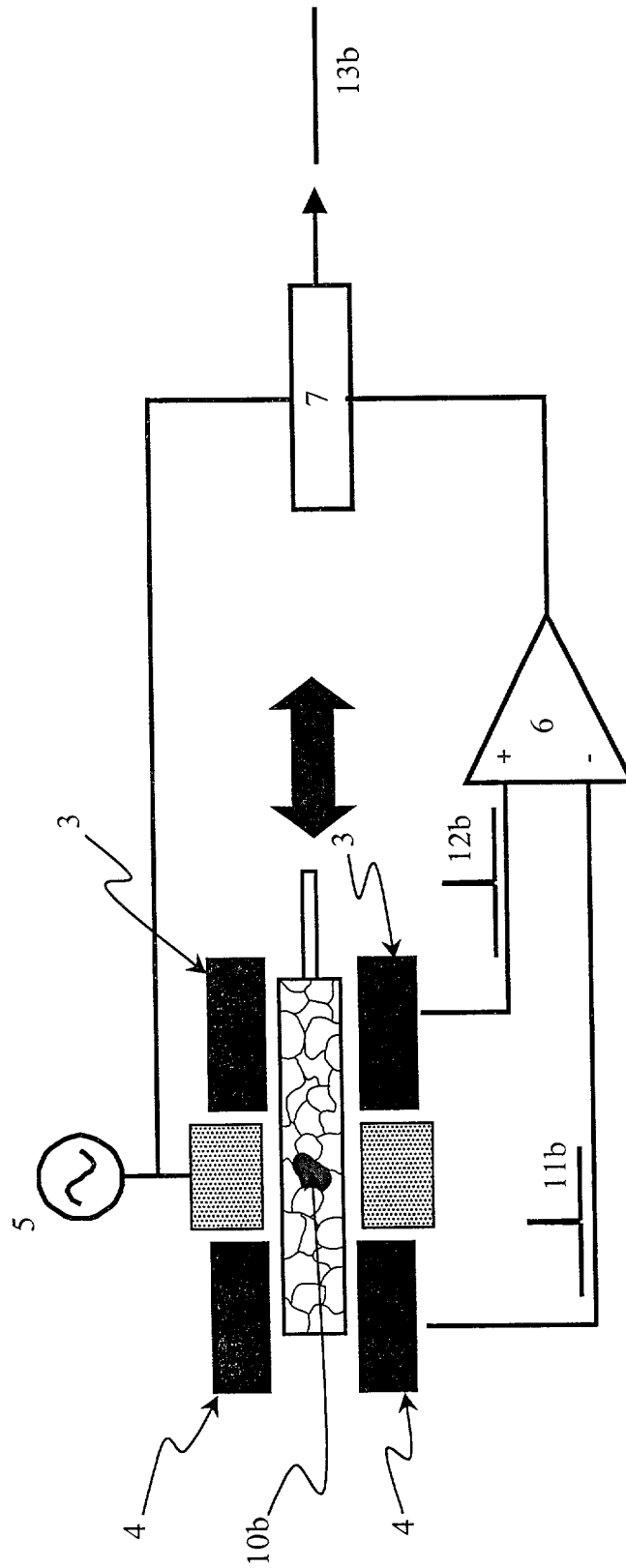


FIG. 7

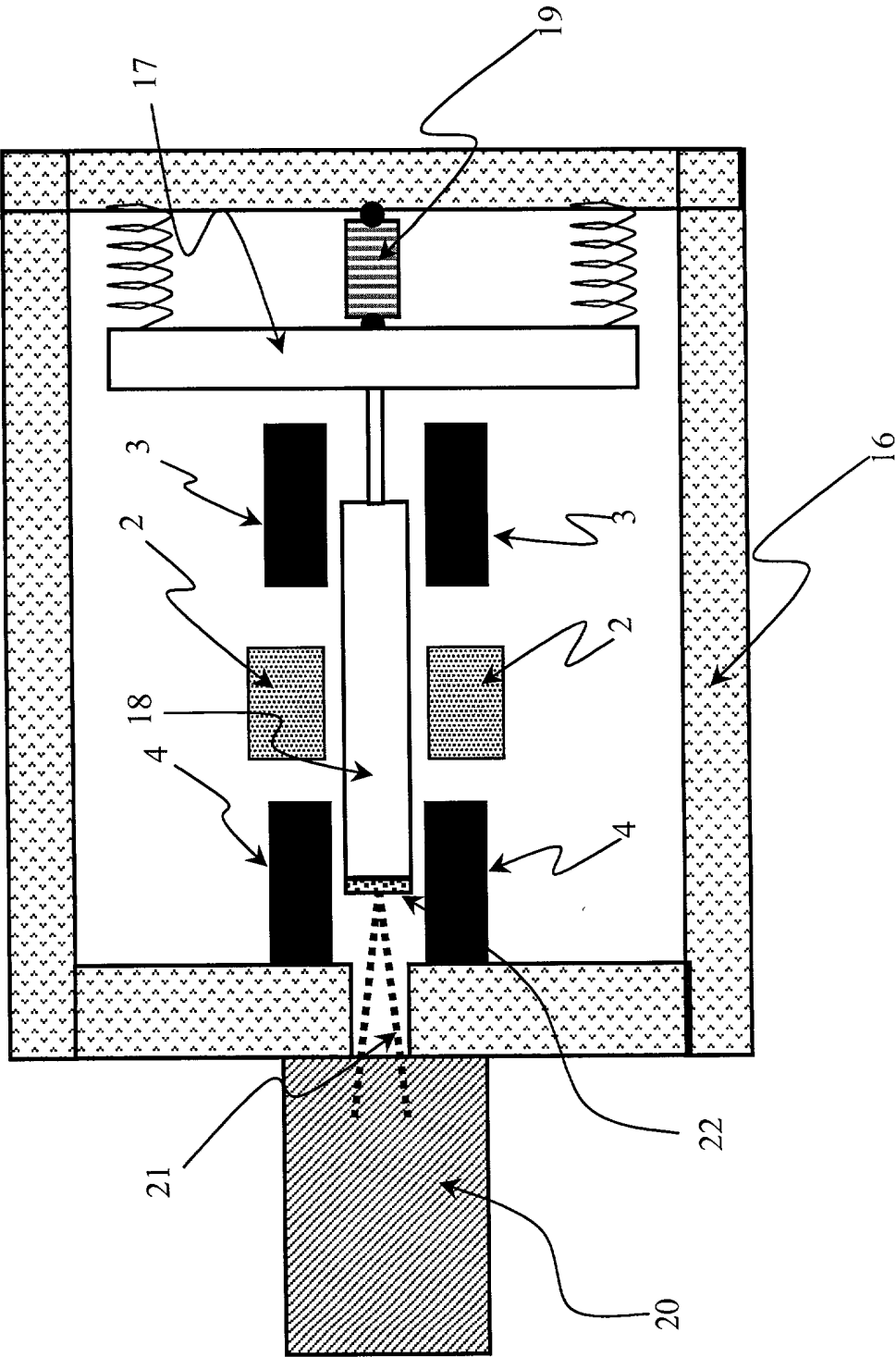


FIG. 8

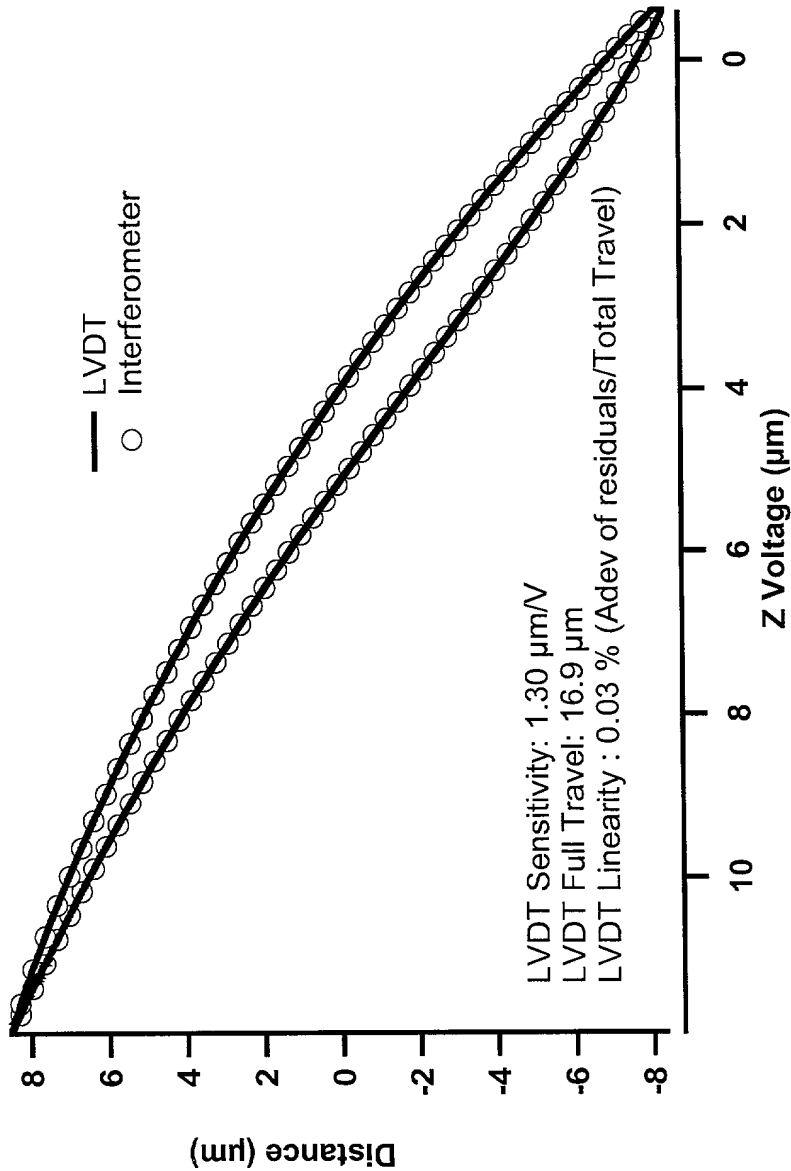


FIG. 9

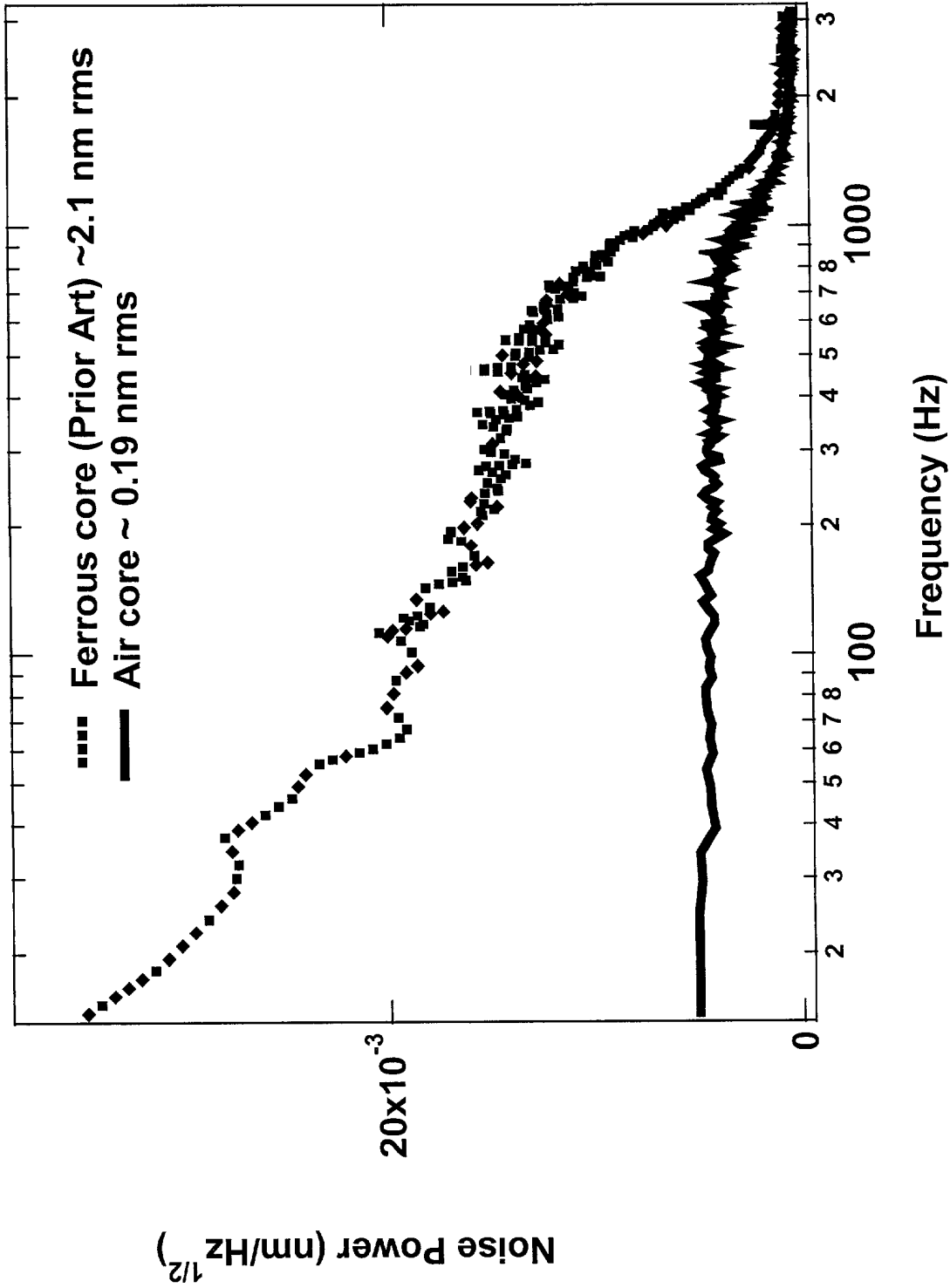


FIG. 10

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Noise vs. Time for ferromagnetic and non-ferromagnetic cores

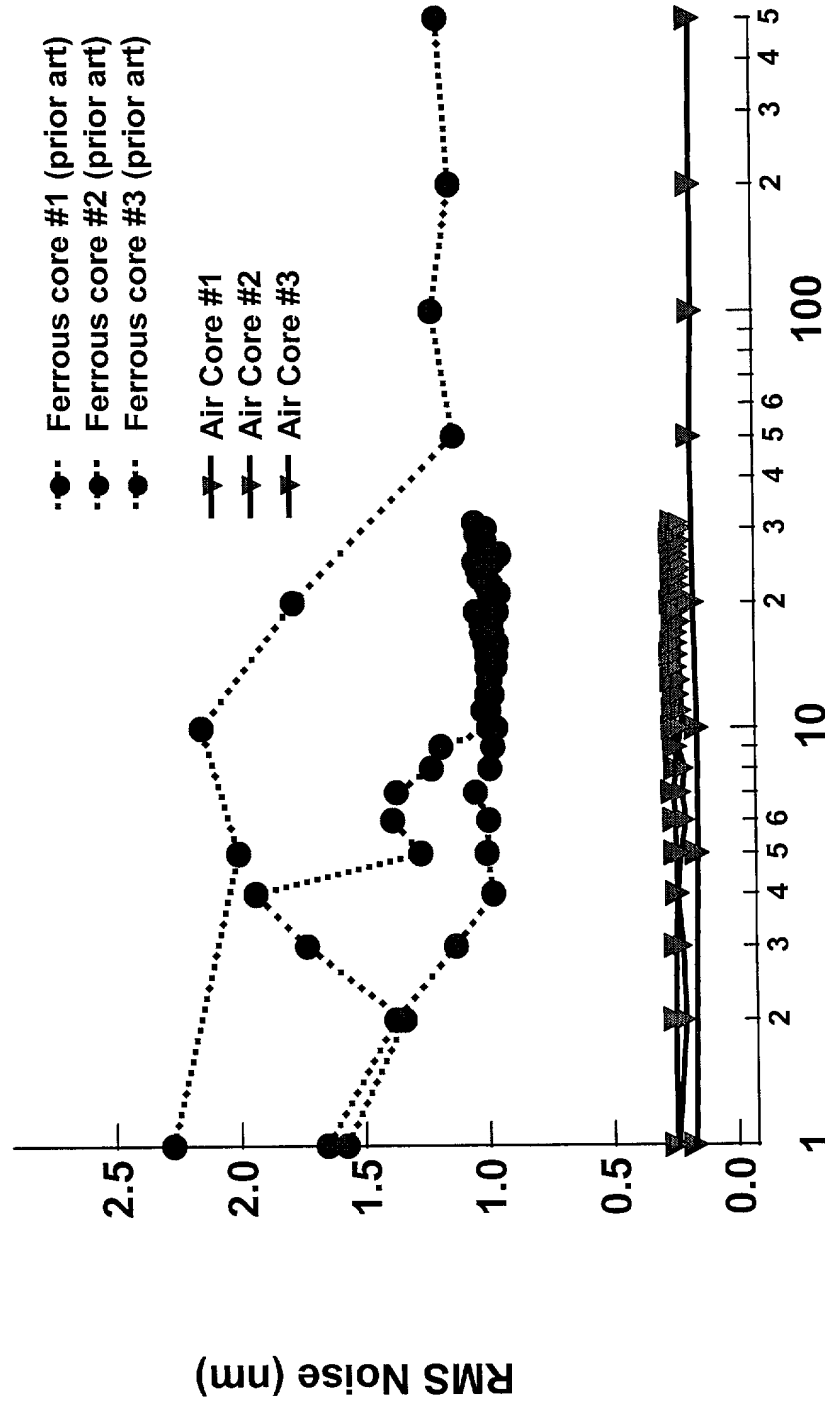


FIG. 11

Positional Noise vs. Primary Coil Drive Amplitude

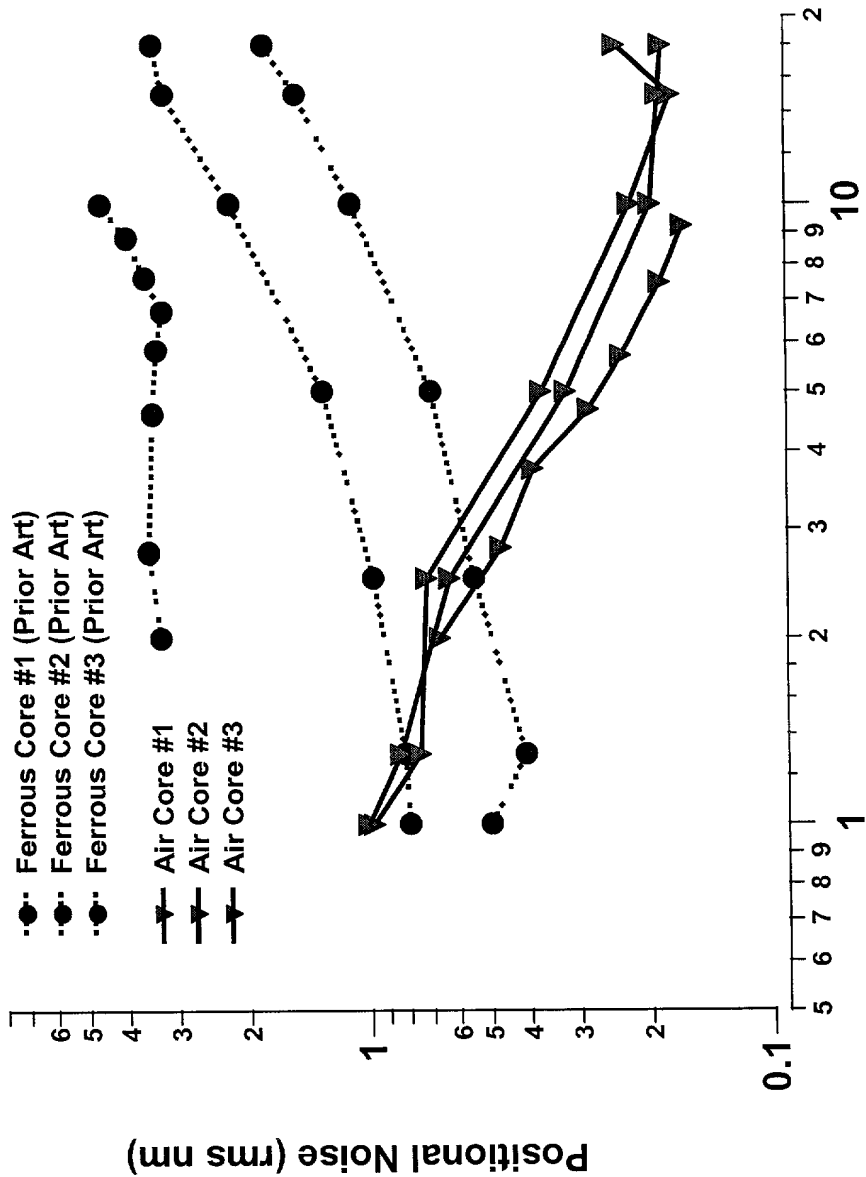


FIG. 12

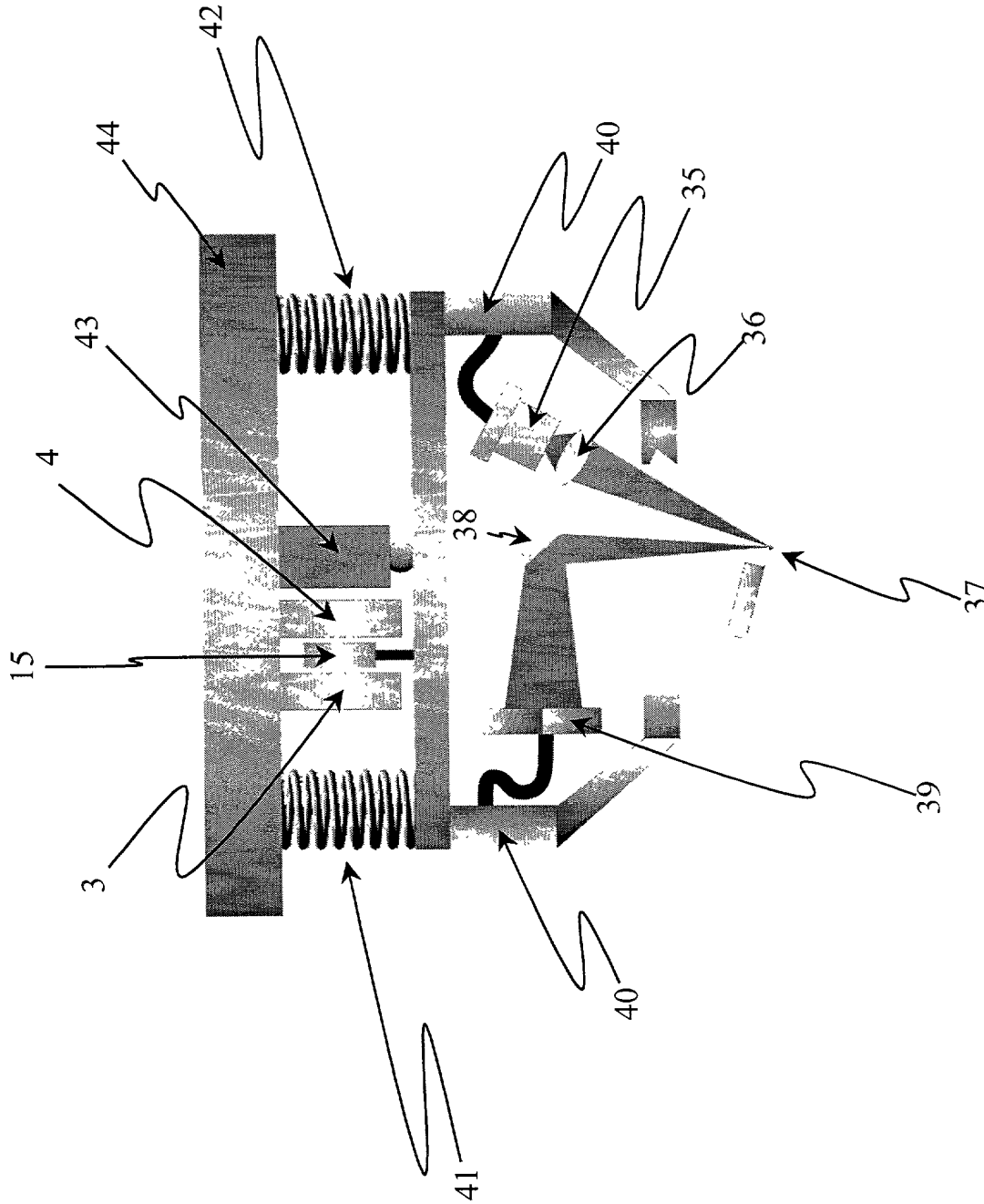


FIG. 13

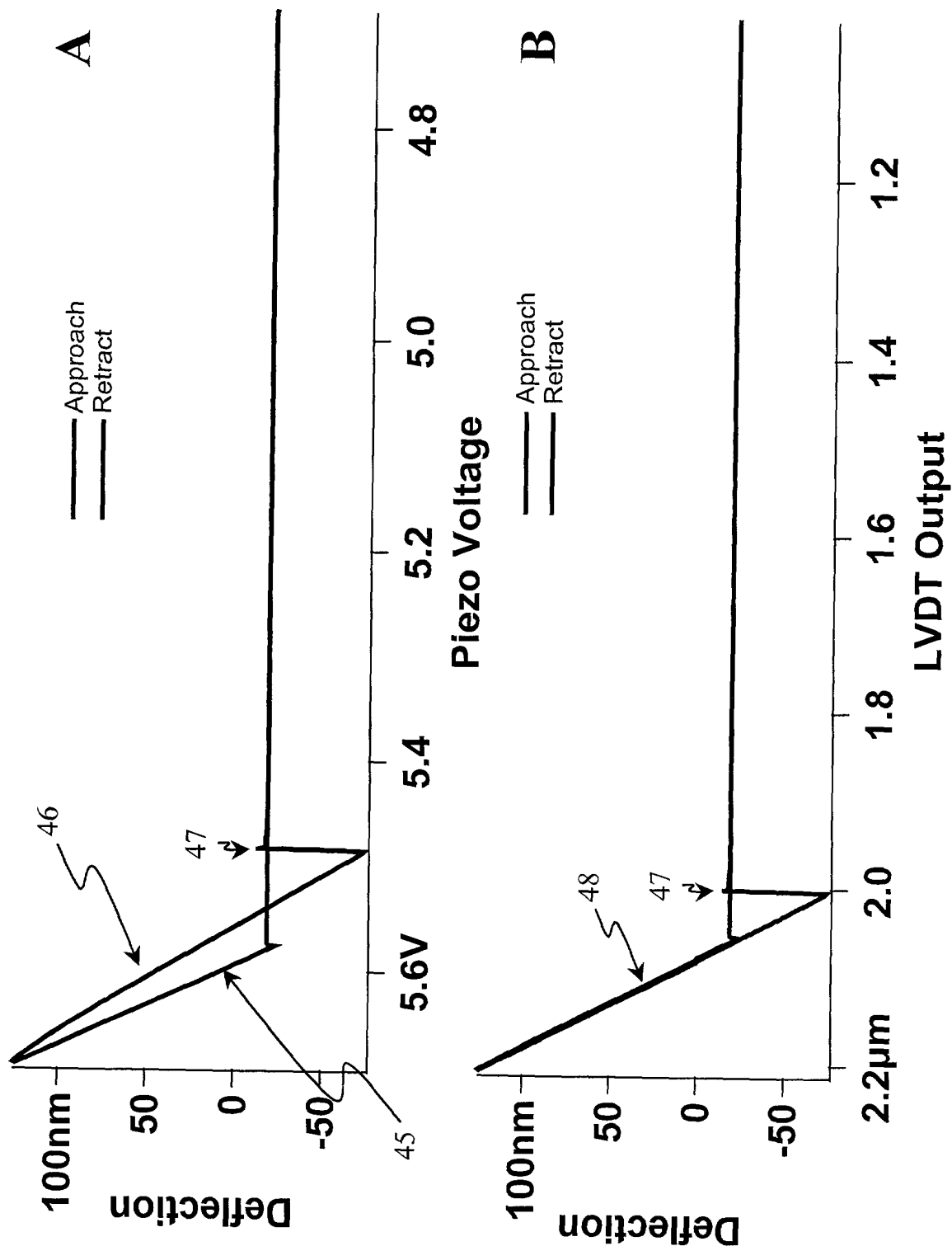


FIG. 15

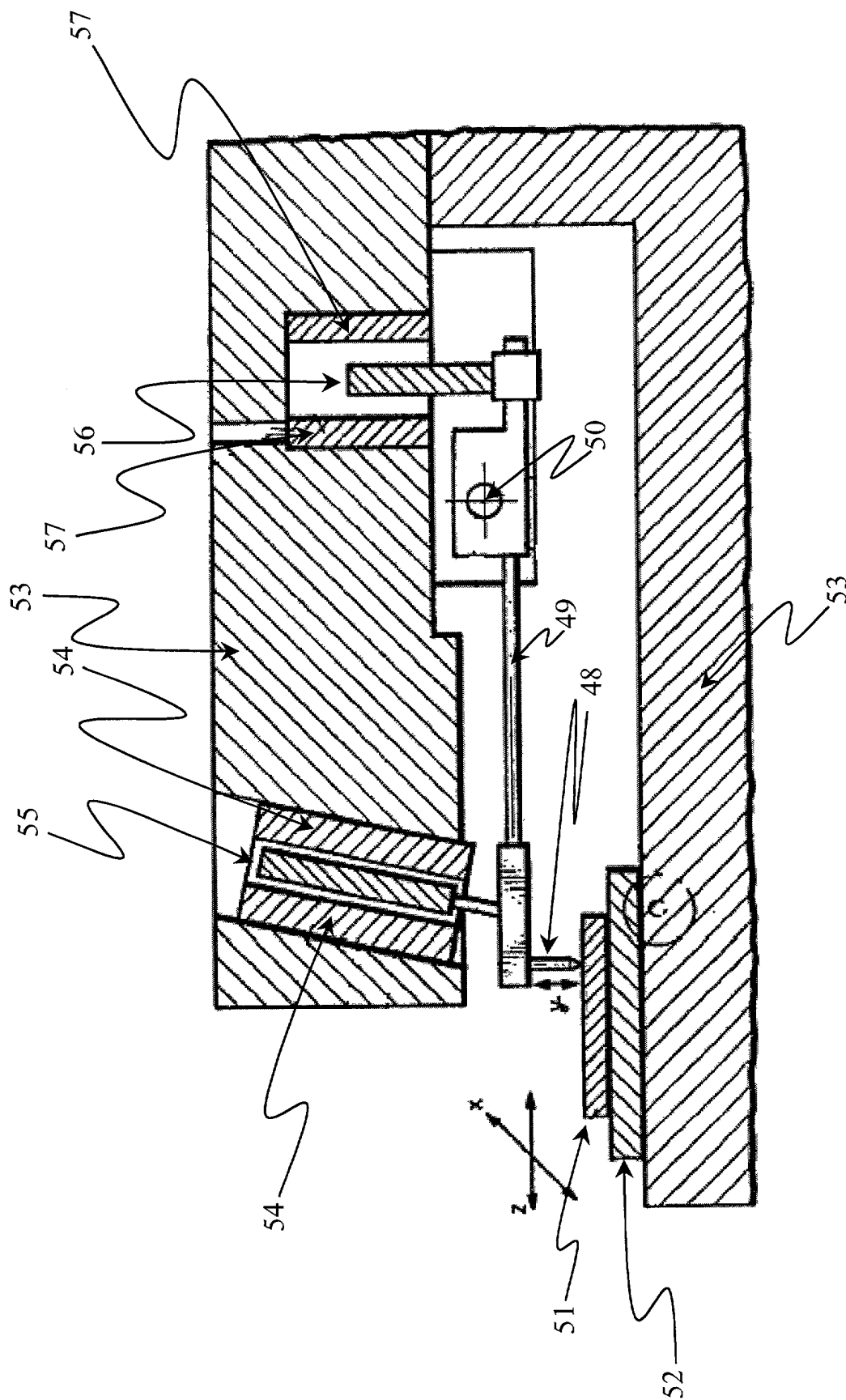


FIG. 15

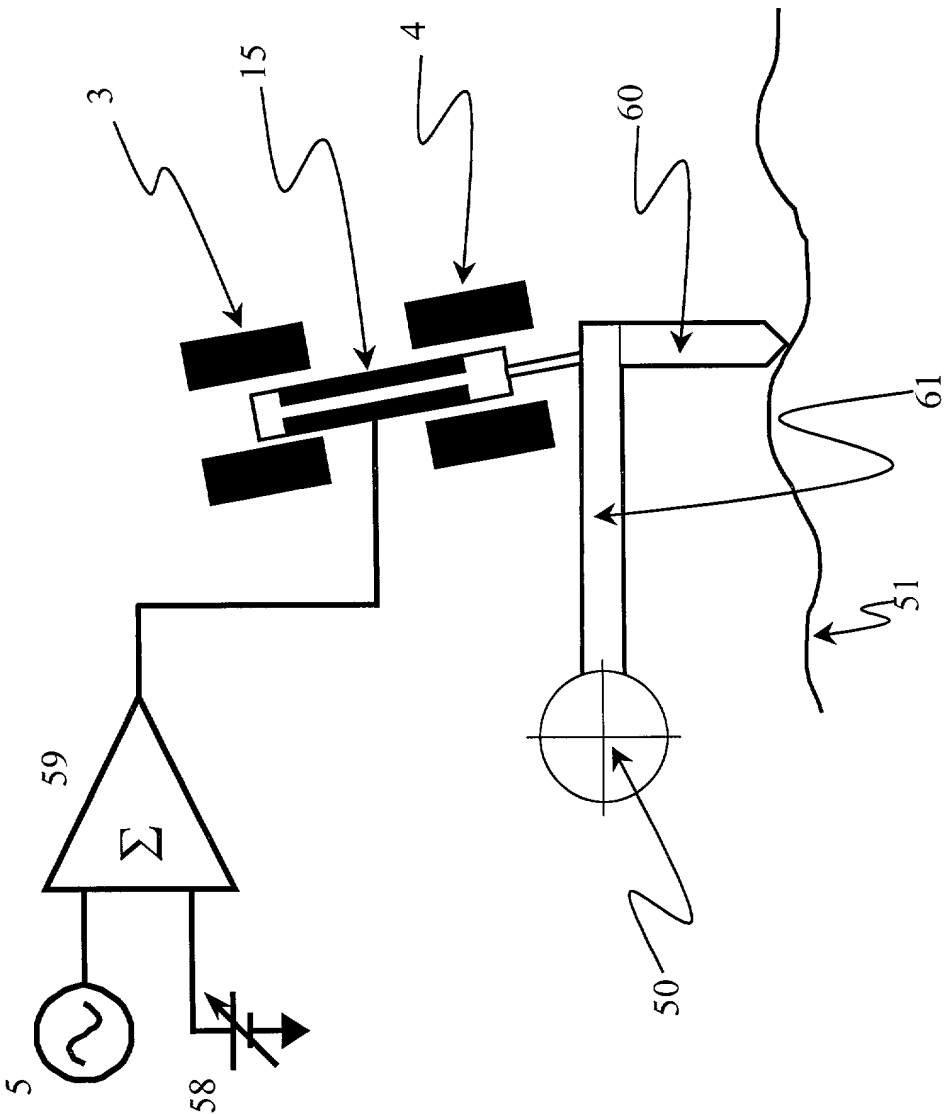


FIG. 16

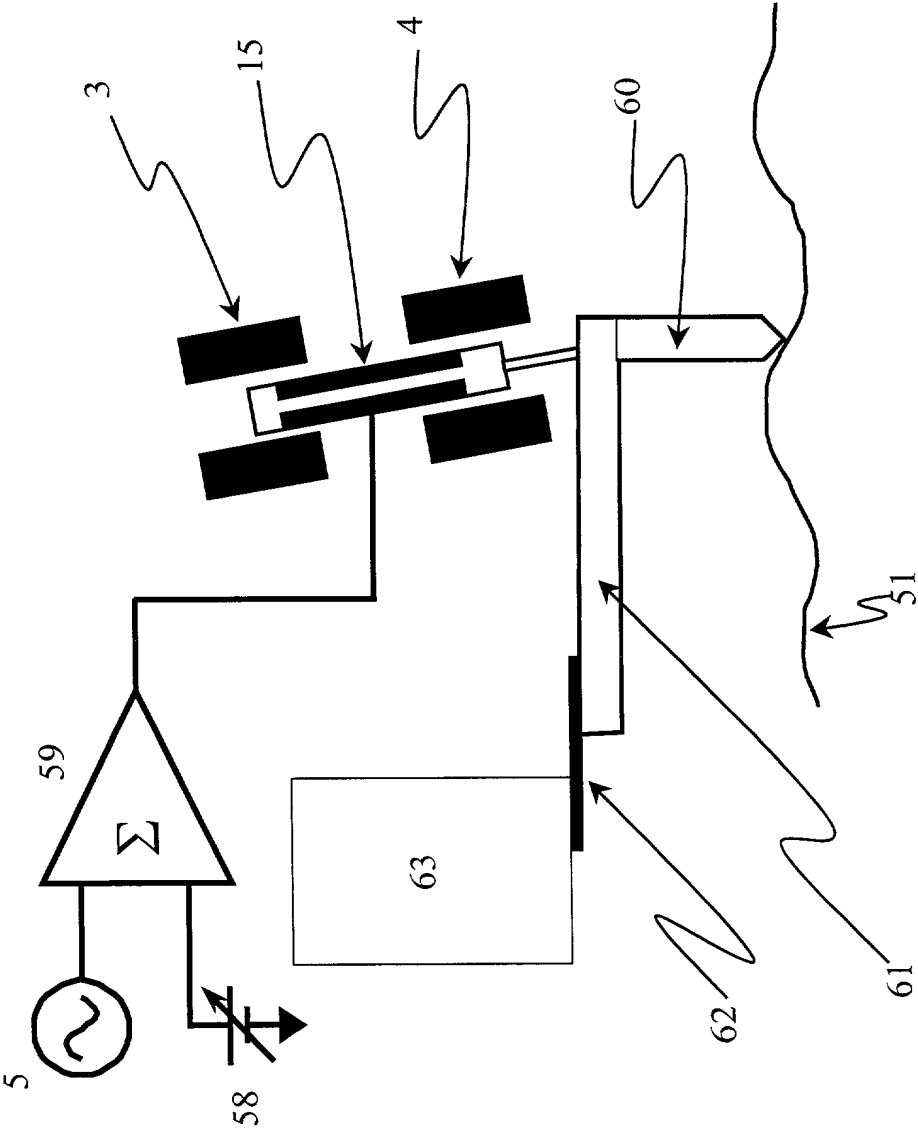


FIG.17

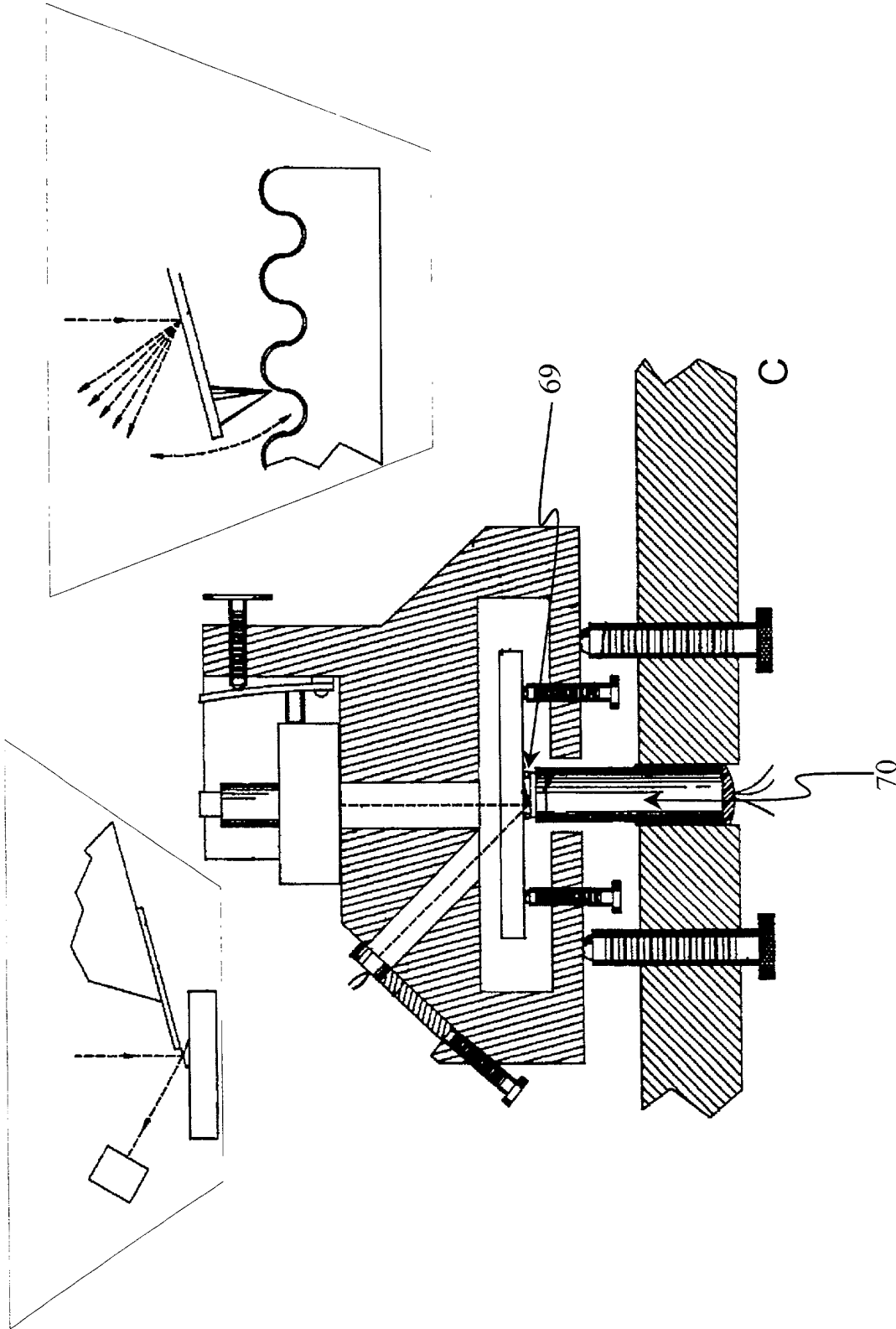


FIG. 18

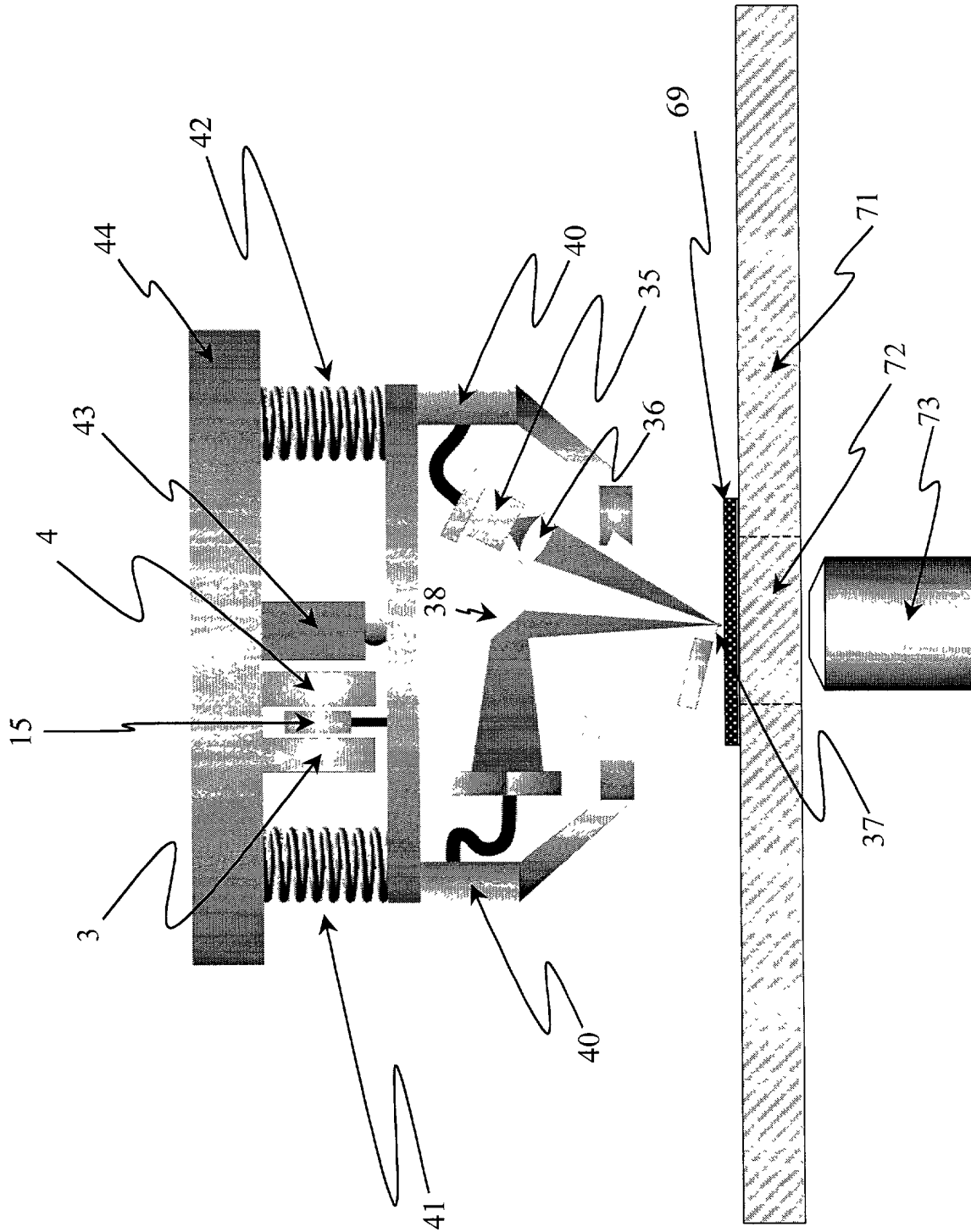


FIG. 19

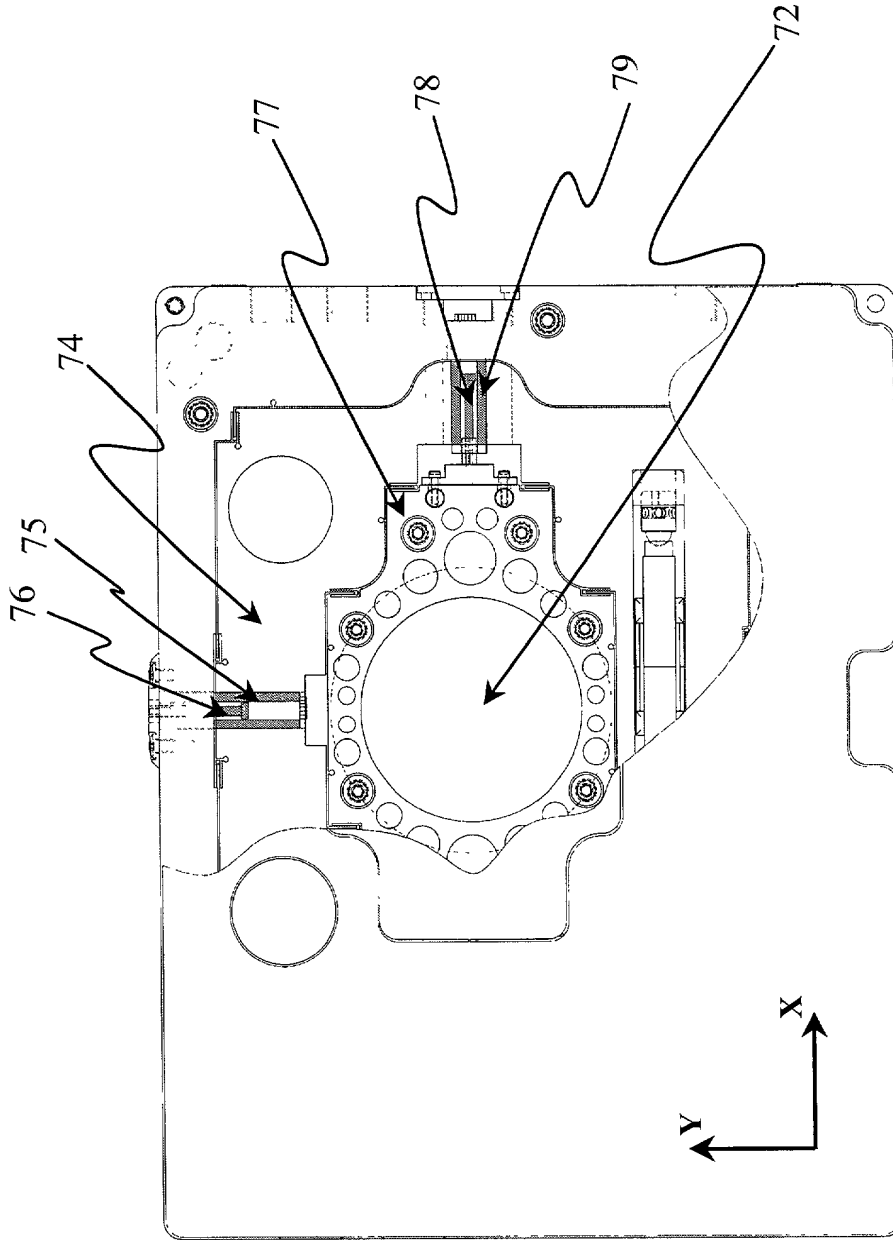


FIG. 20

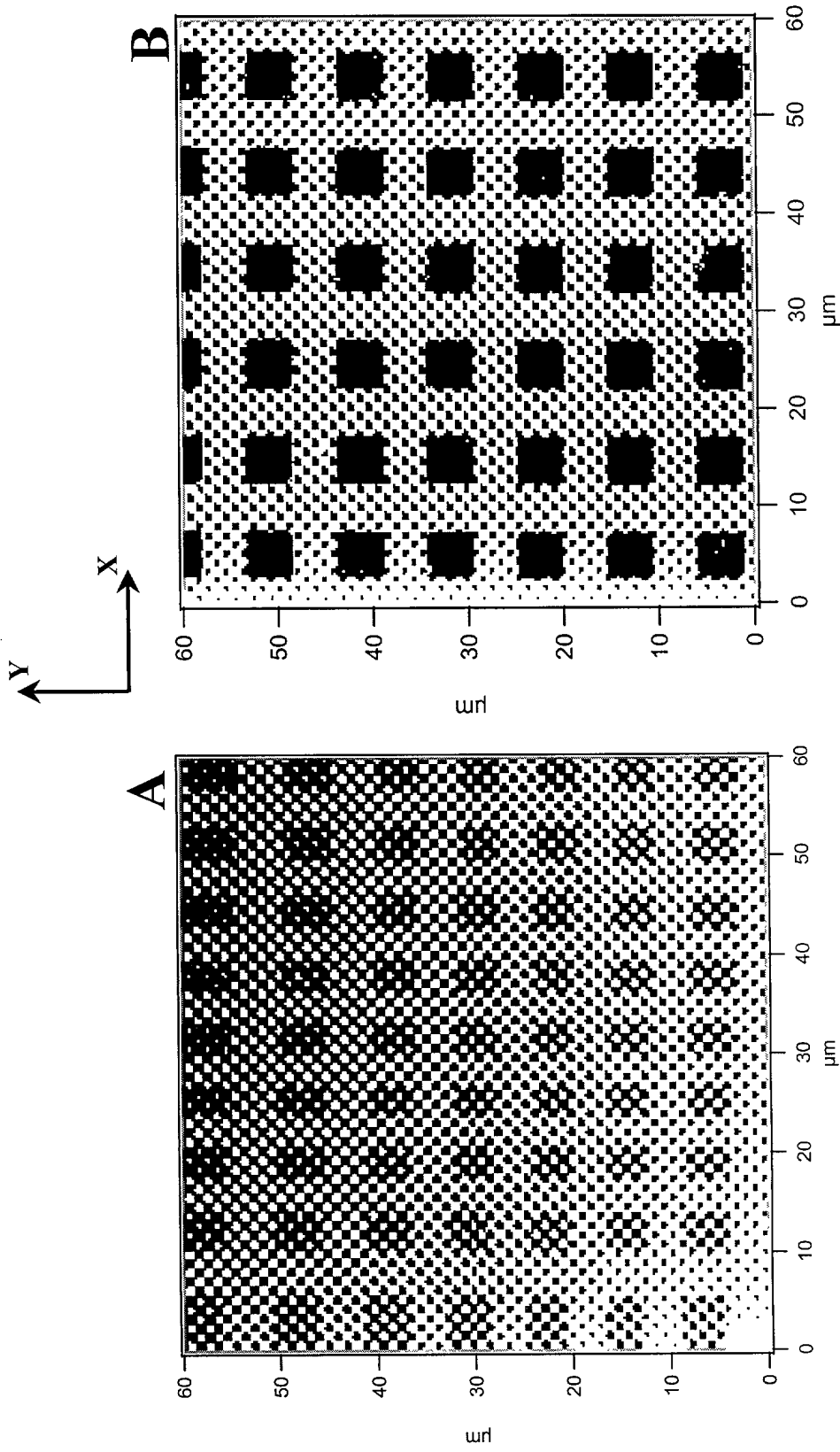


FIG. 21